

Figure 1

$$\begin{pmatrix} y_1 \\ y_2 \\ y_3 \\ y_4 \\ y_5 \\ y_6 \\ y_7 \\ y_8 \end{pmatrix} = \begin{pmatrix} 6, 4, 2, 2, 1, 1, 0, 0, 0, 0 \\ 4, 2, 4, 2, 2, 1, 1, 0, 0, 0 \\ 2, 2, 2, 4, 2, 2, 1, 1, 0, 0 \\ 1, 1, 2, 2, 4, 2, 2, 1, 1, 0 \\ 0, 1, 1, 2, 2, 4, 2, 2, 1, 1 \\ 0, 0, 1, 1, 2, 2, 4, 2, 2, 2 \\ 0, 0, 0, 1, 1, 2, 2, 4, 2, 4 \\ 0, 0, 0, 0, 1, 1, 2, 2, 4, 6 \end{pmatrix} \begin{pmatrix} x_0 \\ x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \\ x_6 \\ x_7 \\ x_8 \\ x_9 \end{pmatrix}$$

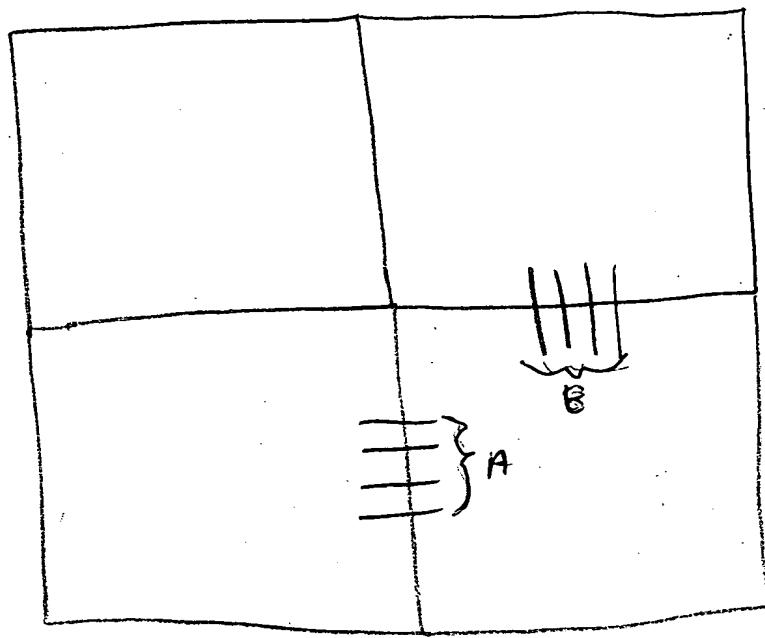
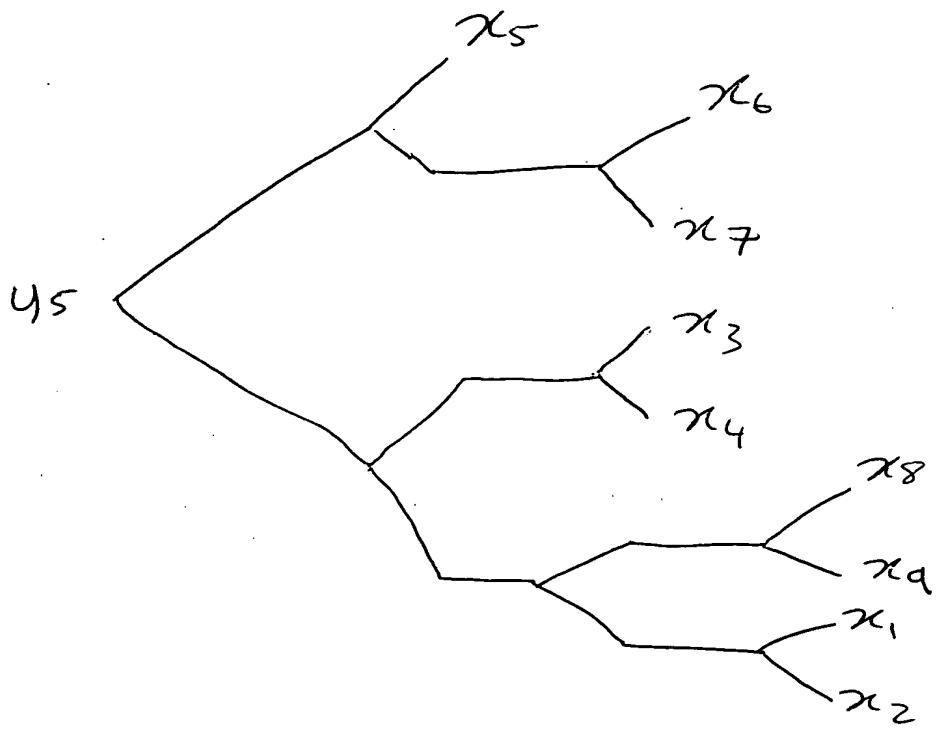
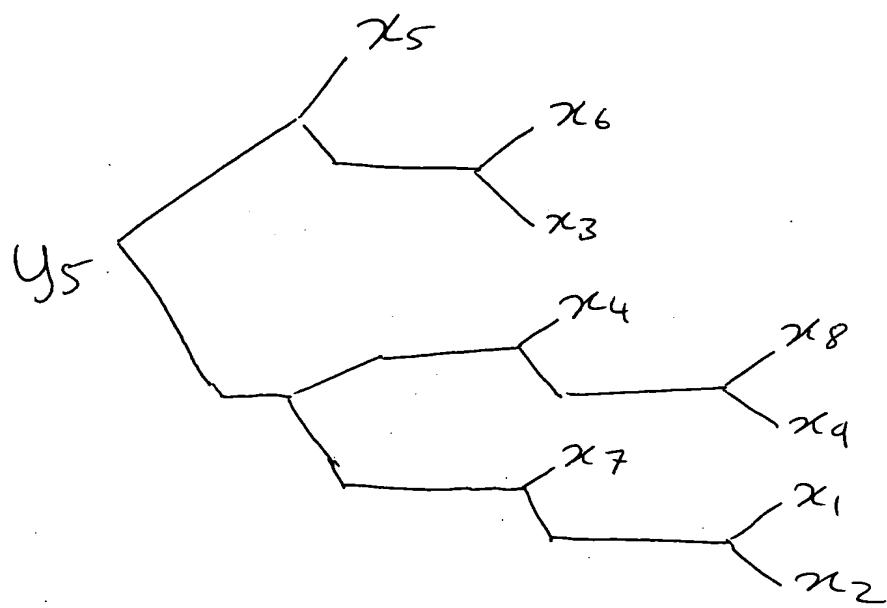


Figure 2



$$y_5 = \frac{1}{2} \left\{ \frac{1}{2} \left[x_5 + \frac{(x_6 + x_7)}{2} \right] + \frac{1}{2} \left(\frac{(x_3 + x_4)}{2} \right) + \frac{1}{2} \left[\left(\frac{(x_8 + x_9)}{2} \right) + \left(\frac{(x_1 + x_2)}{2} \right) \right] \right\}$$

Figure 3 A

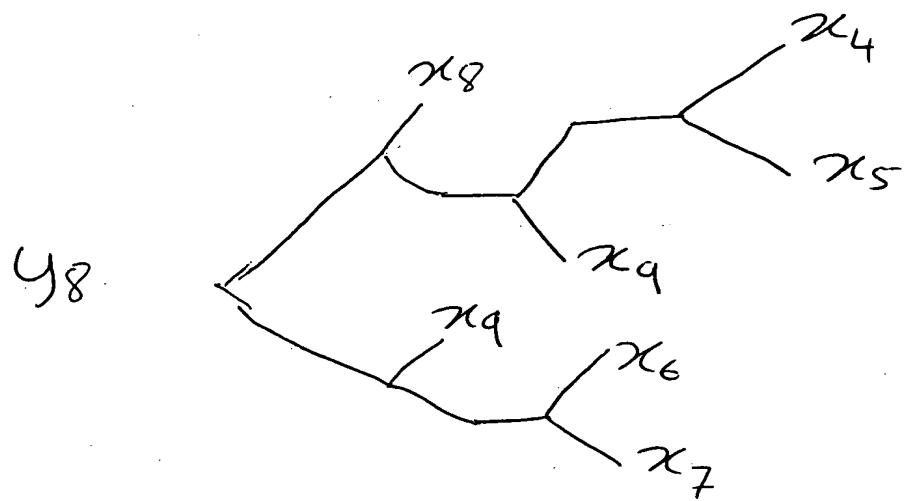


$$y_5 = \frac{1}{2} \left\{ \frac{1}{2} \left[x_5 + \frac{(x_6 + x_3)}{2} \right] + \frac{1}{2} \left(\frac{1}{2} \left[x_4 + \frac{(x_8 + x_9)}{2} \right] + \frac{1}{2} \left[x_7 + \frac{(x_1 + x_2)}{2} \right] \right) \right\}$$

Figure 3B

$$y_8 = \frac{1}{16} (x_4 + x_5 + 2x_6 + 2x_7 + 4x_8 + 6x_9)$$

$$= \frac{1}{16} (x_4 + x_5 + 2x_6 + 2x_7 + 4x_8 + 4x_9 + 2x_9)$$



$$= \frac{1}{24} \left\{ \frac{1}{2} \left[x_9 + \left(\frac{x_6+x_7}{2} \right) \right] + \frac{1}{2} \left[x_8 + \frac{1}{2} \left[x_9 + \left(\frac{x_4+x_5}{2} \right) \right] \right] \right\}$$

Figure 4